CLAIMS LISTING:

1. (Canceled)

2. (Currently amended) The system as recited in claim [[1]] 6, wherein said second control member is ~~configured~~ programmed to ~~establish~~ determine that the compressor is operating when the pressure sensor records a pressure below a first limit value.

3. (Currently amended) The system as recited in claim [[1]] 6, wherein said second control member is ~~configured~~ programmed to ~~establish~~ determine that the compressor is not operating when the pressure sensor records a pressure above a second limit value.

4. (Currently amended) The system as recited in claim 3, wherein said second control member is ~~configured~~ programmed to ~~establish~~ determine that the compressor is operating when the pressure sensor records a pressure between the first and second limit values and the sensor records that the pressure is rising, said second control member being further ~~configured~~ programmed to ~~establish~~ determine that the compressor is not operating when the pressure sensor records a pressure between the first and second limit values and the sensor records that the pressure is dropping or is constant.

5. (Cancelled)

6. (New) A system for providing a supply of compressed gas, said system comprising:

a pressure tank;

a compressor, controllable via a first control member, arranged to supply the pressure tank with compressed gas, said first control member having 1) an active state during which the compressor is controlled to operate and deliver compressed gas to the pressure tank, and 2) a passive state during which the compressor is controlled so as not to supply compressed gas to the pressure tank; and

a second control member signally connected to a pressure sensor arranged in the pressure tank, said second control member being programmed so as to determine whether the compressor is operating by analysis of recorded pressure and pressure changes in the pressure tank.

7. (New) A method for verifying whether a compressor is operating in a system for supply of compressed gas, the system comprising a pressure tank; a compressor, controllable via a first control member, arranged to supply the pressure tank with compressed gas, said first control member having 1) an active state during which the compressor is controlled to operate and deliver compressed gas to the pressure tank, and 2) a passive state during which the compressor is controlled so as not to supply compressed gas to the pressure tank; and a second control member signally connected to a pressure sensor arranged in the pressure tank, said second control member being programmed so as to establish whether the compressor is operating by analysis of recorded pressure and pressure changes in the pressure tank; the method comprising:

utilizing the second control member, determining that the compressor is operating when the pressure sensor records a pressure below a first limit value;

utilizing the second control member, determining that the compressor is not operating when the pressure sensor records a pressure above a second limit value;

utilizing the second control member, determining that the compressor is operating when the pressure sensor records a pressure between the first and second limit values and the sensor records that the pressure is rising; and

utilizing the second control member, determining that the compressor is not operating when the pressure sensor records a pressure between the first and second limit values and the sensor records that the pressure is dropping or is constant.